



Farming for Maximum Efficiency (MAX)

2002 Indiana Herbicide, Insecticide, and Fertilizer Cost Averages

Update from Indiana's Farming for Maximum Efficiency (MAX) Program

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Since 1988, the Farming for Maximum Efficiency (MAX) Program has helped farmers track and compare economic returns in the production of corn, soybeans, wheat and other agronomic crops on a field-by-field basis. Farmers compare various management options, such as tillage, pest control, and fertilizer management strategies, to help assess which practices are both economically efficient and environmentally sound.

The MAX program has three primary goals directed to participating farmers: (1) economic efficiency - maximizing net economic returns per acre; (2) erosion control - maintaining soil erosion losses within the tolerable, or "T", limit to protect long-term productivity; and (3) environmental protection - minimizing the impacts of agricultural production practices on the environment. Farmers can compare economic returns for various crop management systems used on individual fields, check to see if field erosion rates are below "T" levels, track their use of fertilizers, pesticides, equipment operations and other inputs, and compare their results against other participants' to evaluate the efficiency of their production systems. The MAX software is available for download at: www.agry.purdue.edu/max/.

This MAX report summarizes the herbicide, insecticide and fertilizer cost averages throughout Indiana and represents the standardized (averaged) costs used in the 2002 MAX program for field comparisons. Averages, provided by Indiana agrichemical dealers, were derived from actual costs that a farmer would pay at 2002 planting time (approximately April through June) for cash purchases of products without discounts. A total of fourteen dealers participated from all parts of Indiana. Dealers participating represented independent, cooperative, and corporation dealerships, with approximate service coverage areas of participating dealers ranging from one to ten Indiana counties.

Products listed were compared when possible with actual EPA and product labels to verify name and unit formulation information. Some products were removed from this list due to lack of collaborating information. Initial product information was provided by participating dealers from their actual 2002 dealership pricing sheets.

The number of dealers used to determine the 2002 average MAX price for each product is listed, as is the price range (lowest/highest prices provided). If the product was available from less than three dealerships, hashes (- - -) were used in place of price ranges. Variations in individual prices were attributed to local competition, average county size of fields upon which product was used, average county distance from dealership to field upon which the product was used, availability of product, distance from point of manufacture to dealer, demand for product, and specialized use or need for product.

Information provided in this bulletin represents averages for those Indiana dealers participating in this survey and may or may not represent individual prices at your local dealership. Individuals comparing their local prices with those listed in this bulletin should also be hesitant about comparisons against averages provided in this report where only one or two dealers provided data for a given product. These averages, although correctly representing the dealers providing them, do not provide as accurate of a picture of the state average as do product averages derived from five or more dealers from across the state. The provided averages, however, can be used to give a general idea of 2002 prices for Indiana producers.

Products represented are those available for use on crops common to Indiana farms. Key for individual crops for which products are labeled include: C=corn, B=soybeans, W=wheat, O=oats, Y=barley, and M=sorghum.

Farmers should use this information as a supplement and not as a replacement for data obtained from a combination of university and commercial sources and/or from their own farm's economic data.

HERBICIDES	Average Cost (\$)	Cost Unit	# of Dealers	Price Ranges (\$)	Crops
2,4-D amine	14.09	Gallon	12	10.45 - 19.01	CBWOYM
2,4-D ester	16.89	Gallon	8	13.27 - 22.23	CBWOYM
2,4-DB	43.45	Gallon	5	35.84 - 49.84	CB
28-0-0	0.28	Gallon	1	- - -	CB
AAtrex 4L	12.36	Gallon	10	11.00 - 14.72	C
AAtrex Nine-O	2.64	Pound	11	2.42 - 3.25	C
Accent	563.16	Pound	11	495.20 - 608.64	C
Accent Gold	125.76	Pound	9	99.73 - 136.64	C
Aim	7.20	DryOunce	5	6.32 - 8.88	CBWOYM
Alanap-L	38.56	Gallon	3	35.52 - 42.30	B
Ally	29.17	DryOunce	2	- - -	WOYM
Ammonium sulfate (liquid)	3.76	Gallon	3	3.15 - 4.68	CBWOYM
Ammonium sulfate (spray grade)	0.31	Pound	13	0.18 - 0.67	CBWOYM
Amplify	27.54	DryOunce	4	26.49 - 28.29	B
Assure II	143.02	Gallon	12	127.00 - 158.50	B
Atrazine 4L	11.73	Gallon	12	10.00 - 14.72	CM
Atrazine 90DF	2.62	Pound	12	2.36 - 3.25	CM
Authority	47.29	Pound	7	44.29 - 49.49	B
Axiom AT	5.43	Pound	1	- - -	C
Axiom DF	17.88	Pound	10	16.31 - 19.78	CB
Backdraft	31.62	Gallon	7	29.57 - 33.46	B
Balance Pro	6.78	Gallon	11	5.98 - 7.29	C
Balance WDG	9.38	DryOunce	2	- - -	C
Banvel	92.77	Gallon	6	84.10 - 102.84	CWOYM
Basagran	82.16	Gallon	11	66.72 - 89.11	CB
Basis	18.25	DryOunce	9	15.64 - 19.18	C
Basis Gold	20.75	Pound	12	18.65 - 22.23	C
Beacon	439.77	Pound	13	383.20 - 526.22	CM
Bicep II Magnum	43.90	Gallon	13	38.43 - 48.07	CM
Bicep Lite II Magnum	59.10	Gallon	2	- - -	CM
Blazer	76.19	Gallon	1	- - -	B
Boundary	81.64	Gallon	7	77.50 - 84.82	B
Broadstrike + Dual	56.77	Gallon	2	- - -	CBM
Buctril	61.78	Gallon	11	53.30 - 68.12	CWOYM
Buctril + Atrazine	40.48	Gallon	9	35.67 - 44.35	CWOYM
Bullet	19.85	Gallon	9	18.40 - 22.13	CM
Callisto 4SC	528.20	Gallon	11	466.16 - 565.23	C
Canopy SP	37.15	Pound	10	32.85 - 40.76	B
Canopy XL	40.45	Pound	13	35.55 - 45.44	B
Celebrity Plus	85.63	Pound	9	73.88 - 91.66	C
Clarity	92.50	Gallon	12	81.40 - 97.31	CWOYM
Class Act	6.35	Gallon	4	5.79 - 6.90	CBWOYM
Classic	207.48	Pound	13	186.08 - 221.92	B
Cobra	145.96	Gallon	13	127.50 - 163.44	B
Combine	29.95	Gallon	1	- - -	CBWOYM

Command 3ME	67.66	Gallon	4	50.72 - 77.50	B
Conclude	66.51	Gallon	3	63.87 - 68.76	B
Crop oil concentrate	5.28	Gallon	8	4.50 - 7.13	CBWOYM
Define DF	20.08	Pound	8	18.14 - 21.43	C
Degree	44.68	Gallon	4	42.90 - 47.21	C
Degree Xtra	31.42	Gallon	13	24.51 - 35.44	C
Destiny (Surfactant)	12.84	Gallon	2	- - -	CBWOYM
Detail	76.51	Gallon	1	- - -	B
Distinct	37.98	Pound	11	32.58 - 40.46	C
Domain DF	13.25	Pound	7	11.76 - 14.52	B
DoublePlay	36.54	Gallon	3	35.74 - 37.26	C
Dual II Magnum	111.91	Gallon	14	85.92 - 122.93	CBM
Dual IIG Magnum	2.31	Pound	4	2.24 - 2.39	CB
Dual Magnum	107.68	Gallon	3	96.51 - 114.04	CBM
Epic	33.20	Pound	6	29.44 - 36.78	C
Eradicane 6.7-E	30.92	Gallon	3	29.97 - 32.20	C
Exceed	11.60	DryOunce	9	10.14 - 12.65	C
Express	279.68	Pound	11	267.20 - 331.84	CWY
Extreme	36.48	Gallon	11	32.78 - 40.23	B
FastBreak (Defoamer)	49.70	Gallon	2	- - -	CBWOYM
Field Master	25.64	Gallon	12	20.12 - 28.23	C
FirstRate	26.78	DryOunce	14	23.88 - 28.94	B
FlexStar	101.38	Gallon	13	87.32 - 109.58	B
Frontier 6.0	92.00	Gallon	7	85.53 - 100.00	CBM
FrontRow	21.67	DryOunce	1	- - -	B
FulTime	29.03	Gallon	12	24.50 - 34.32	C
Fusilade DX	143.83	Gallon	7	125.00 - 156.39	B
Fusion	148.86	Gallon	13	128.88 - 165.74	B
Galaxy	66.30	Gallon	1	- - -	B
Gauntlet 70 WDG	3.30	DryOunce	5	3.06 - 3.61	B
Glyphomax	41.75	Gallon	3	36.78 - 44.60	CBWOYM
Glyphomax Plus	40.61	Gallon	7	33.00 - 45.98	CBWOYM
Gramoxone Max	40.49	Gallon	12	33.95 - 44.97	CBWOYM
Guardzman	39.99	Gallon	7	36.13 - 43.71	C
Guardzman MAX	43.68	Gallon	6	38.56 - 46.45	CM
Harmony Extra	204.69	Pound	10	192.00 - 220.32	CWOY
Harmony GT	11.75	DryOunce	6	10.45 - 12.64	BWOY
Harness	78.87	Gallon	5	74.30 - 83.20	C
Harness 20G	2.36	Pound	3	2.33 - 2.38	C
Harness Xtra	50.81	Gallon	5	46.91 - 56.82	C
Harness Xtra 5.6L	37.05	Gallon	13	30.75 - 42.66	C
Hi-Dep	23.35	Gallon	6	21.63 - 27.03	CWOYM
Hornet	3.65	DryOunce	3	2.76 - 4.81	C
Hornet WDG	3.45	DryOunce	11	3.09 - 3.69	C
Karmex DF	5.09	Pound	2	- - -	CWOYM
Laddok S-12	49.73	Gallon	5	48.16 - 51.29	COY
Lariat	20.47	Gallon	6	19.09 - 22.23	CM
Lasso	24.58	Gallon	2	- - -	CBM

Lasso Micro-Tech	24.09	Gallon	8	21.28 - 28.48	CB
Leadoff	37.69	Gallon	9	31.55 - 41.67	CM
Lexone DF	20.44	Pound	3	18.55 - 21.80	CBWOY
Liberty	94.10	Gallon	13	80.65 - 104.70	CB
Liberty ATZ	63.90	Gallon	8	55.65 - 69.86	C
Lightning	12.42	DryOunce	12	11.00 - 13.50	CB
Lorox DF	12.92	Pound	4	12.24 - 13.65	CBOM
Lorox Plus	17.77	Pound	1	- - -	B
Marksman	30.72	Gallon	10	26.71 - 33.64	CM
MCPA amine	17.33	Gallon	2	- - -	WOY
Moxy 2E	62.05	Gallon	3	54.92 - 67.14	CWOYM
Moxy + Atrazine	41.05	Gallon	3	37.72 - 43.71	CM
Northstar	32.18	Pound	8	27.84 - 35.04	C
Outlook	148.03	Gallon	7	130.34 - 158.70	CBM
Partner WDG	2.83	Pound	5	2.54 - 3.74	CBM
Peak	12.32	DryOunce	3	11.62 - 12.97	WOYM
Pendimax 3.3	23.57	Gallon	3	21.30 - 26.83	CBM
Penetrant	21.00	Gallon	1	- - -	CB
Permit	16.24	DryOunce	10	13.64 - 17.93	CM
Phenoxy 088	30.10	Gallon	5	23.55 - 36.57	CBWYM
Phoenix	163.47	Gallon	4	156.32 - 174.37	B
Pinnacle	681.60	Pound	1	- - -	B
Poast	69.11	Gallon	8	62.88 - 74.87	CB
Poast Plus	54.10	Gallon	11	42.68 - 61.56	CB
Prestige	41.48	Gallon	1	- - -	B
Princep 4L	17.96	Gallon	14	14.72 - 20.07	C
Princep Caliber 90	4.00	Pound	12	3.65 - 4.50	C
Prowl 3.3EC	21.90	Gallon	13	19.38 - 24.41	CB
Pursuit DG	11.42	DryOunce	11	10.07 - 12.26	CB
Pursuit Plus	48.43	Gallon	6	42.01 - 53.62	CB
Python WDG	9.55	DryOunce	13	8.50 - 10.52	CB
Raptor	531.64	Gallon	12	468.06 - 569.87	B
Reflex	95.83	Gallon	9	86.05 - 104.31	B
Request	20.51	Gallon	1	- - -	CBWOYM
Resolve SG	3.37	DryOunce	1	- - -	C
Resource	178.80	Gallon	7	168.54 - 188.27	CB
Rezult	47.31	Gallon	5	42.56 - 52.13	B
Roundup	39.05	Gallon	8	34.26 - 44.87	CBWOYM
Roundup Ultra	46.29	Gallon	3	37.66 - 56.70	CBWOYM
Roundup UltraDry	9.13	Pound	5	7.89 - 9.94	CBWOYM
Roundup UltraMAX	54.91	Gallon	12	47.26 - 60.89	CBWOYM
Scepter 70DG	91.63	Pound	11	82.95 - 100.60	B
Scorpion III	30.15	Pound	2	- - -	C
Select 2EC	204.02	Gallon	14	177.00 - 222.18	B
Sencor 4	105.53	Gallon	5	102.39 - 111.78	CBWY
Sencor DF	20.23	Pound	11	17.38 - 22.35	CBWOY
Simazine 4L	15.47	Gallon	10	12.25 - 17.21	C
Simazine 90DF	3.63	Pound	9	3.00 - 4.50	C

Sonalan HFP	29.37	Gallon	5	27.06 - 32.08	B
Spirit	10.134	DryOunce	12	9.10 - 10.91	C
Squadron	38.08	Gallon	10	32.88 - 43.05	B
Steadfast	21.49	DryOunce	5	20.17 - 22.54	C
Steel	46.84	Gallon	10	41.44 - 52.93	B
Stellar	222.12	Gallon	6	204.84 - 239.74	B
Sterling	93.37	Gallon	6	78.95 - 105.18	CWOYM
Sterling Plus	29.85	Gallon	7	24.88 - 33.03	CM
Stinger	533.90	Gallon	10	472.00 - 588.67	CWOYM
Storm	88.92	Gallon	7	83.89 - 94.78	B
Surfactant (e.g. X-77)	15.81	Gallon	6	7.62 - 21.91	CBWOYM
Surpass 100	25.95	Gallon	1	- - -	CB
Surpass EC	74.75	Gallon	6	68.92 - 80.36	CB
Synchrony STS SP	10.04	DryOunce	12	9.10 - 10.91	B
TopNotch	38.79	Gallon	6	35.69 - 43.84	C
Tordon RTU	41.54	Gallon	7	37.80 - 48.12	WOY
Tornado	42.64	Gallon	1	- - -	B
Touchdown	45.40	Gallon	10	38.90 - 51.98	CB
Tough 5EC	77.63	Gallon	2	- - -	C
Treflan HFP	29.62	Gallon	4	27.32 - 31.46	CBWYM
Treflan MTF	28.66	Gallon	2	- - -	WOY
Treflan TR-10	1.02	Pound	1	- - -	CBWYM
Trust 4EC	22.12	Gallon	2	- - -	CBM
Turbo	44.00	Gallon	1	- - -	B
Ultra Blazer	75.61	Gallon	5	70.59 - 78.75	B
Valor	82.99	Pound	6	69.12 - 90.00	B
Weedone 638	28.42	Gallon	4	23.48 - 34.02	CBWOY
Weedone LV4	16.57	Gallon	2	- - -	C WOY
Yukon	2.86	DryOunce	2	- - -	CM

INSECTICIDES AND FUNGICIDES	Cost Unit	# of Dealers	Average Cost (\$)	Price Ranges (\$)	Crops
Ambush 2E	132.30	Gallon	4	127.05 - 141.69	CBM
Arctic 3.2EC	144.63	Gallon	5	139.96 - 150.36	CB
Asana XL	108.74	Gallon	4	103.45 - 115.36	CBM
Aztec 2.1G	2.43	Pound	11	2.12 - 2.57	C
Capture 1.15G	2.41	Pound	2	- - -	C
Capture 2EC	434.76	Gallon	8	387.50 - 476.97	CB
Counter 15G	2.43	Pound	1	- - -	CM
Counter 20CR	2.93	Pound	13	2.53 - 3.17	CM
Diazinon 14G	1.81	Pound	3	1.06 - 2.34	CM
Dimate 4EC	35.04	Gallon	2	- - -	CBWM
DiPel 2X	13.09	Pound	1	- - -	CBM
Dithane DF	3.38	Pound	2	- - -	CWOY
Force 3G	4.38	Pound	13	3.72 - 4.72	CM
Fortress 5G	4.99	Pound	6	4.61 - 5.25	C
Furadan 4F	82.92	Gallon	6	75.10 - 92.30	CBWOYM
Larvin 3.2	76.75	Gallon	1	- - -	B

Lorsban 15G	1.93	Pound	12	1.64 - 2.09	CBM
Lorsban 4E	43.02	Gallon	9	38.14 - 46.25	CBM
Malathion 57EC	29.54	Gallon	7	24.95 - 34.50	BT
Mustang 1.5EW	210.25	Gallon	6	192.08 - 230.74	CBWM
PennCap-M	31.76	Gallon	2	---	CWOYMT
Phorate 20G	2.11	Pound	2	---	CBM
Pounce 1.5G	1.26	Pound	2	---	C
Pounce 3.2EC	140.74	Gallon	11	129.66 - 152	CBM
Quadris	314.31	Gallon	4	303.69 - 338.69	CBWY
Regent 4SC	600.03	Gallon	13	519.68 - 657.92	C
Ridomil Gold EC	840.56	Gallon	3	798.55 - 877.36	B
Ridomil Gold PC	2.15	Pound	2	---	B
Sevin 80S	5.88	Pound	2	---	CBWOYM
Sevin XLR Plus	33.93	Gallon	8	31.17 - 35.28	CBWOYM
Thimet 20G	2.56	Pound	3	2.38 - 2.72	CBWOYM
Tilt	383.47	Gallon	6	349.98 - 427.41	CWOY
Warrior	256.95	Gallon	1	---	CBM
Warrior T	295.88	Gallon	10	260.00 - 397.83	CBWM

FERTILIZERS	Cost Unit	# of Dealers	Average Cost (\$)	Price Ranges (\$)	Crops
0-0-60	160.08	Ton	6	148.00 - 165.12	CBWOYM
0-0-61	161.82	Ton	5	158.00 - 167.58	CBWOYM
0-46-0	228.30	Ton	9	208.00 - 244.80	CBWOYM
4-10-10	141.19	Ton	3	106.86 - 180.00	CBWOYM
10-34-0	241.84	Ton	12	205.00 - 259.20	CBWOYM
13-0-0 (Lilly Water)	45.54	Ton	2	---	CBWOYM
18-46-0	238.27	Ton	10	205.00 - 256.32	CBWOYM
20-0-0	84.00	Ton	1	---	CBWOYM
21-0-0	167.39	Ton	2	---	CBWOYM
28-0-0	135.89	Ton	12	112.00 - 152.00	CBWOYM
34-0-0	198.20	Ton	3	190.00 - 207.00	CBWOYM
46-0-0	201.40	Ton	11	175.00 - 225.60	CBWOYM
82-0-0	261.80	Ton	10	245.00 - 275.00	CBWOYM
Ag. Lime (Calcitic)	14.25	Ton	1	---	CBWOYM
Ag. Lime (Dolomitic)	18.38	Ton	2	---	CBWOYM
Pel Lime	98.26	Ton	9	80.00 - 108.00	CBWOYM



For More Information...

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